



# ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

Sub: Biological Sciences

Class: XI

Date: 28.11 .2020

## Nucleic Acids

F.M:15

### WORKSHEET – 54

(1x15=15)

- i) DNA and RNA are  
(1) Nucleotides           (2) Nucleosides           (3) Nitrogenous bases           (4) Nucleic Acids
- ii) Which of the following is not present in a nucleotide?  
(1) Nitrogenous bases   (2) Hexose sugar           (3) Phosphate           (4) Pentose sugar
- iii) Which of the following is not a pyrimidine?  
(1) Uracil                   (2) Thymine                   (3) Cytosine                   (4) Adenine
- iv) 2 amino 6 oxy purine is-  
(1) Adenine                   (2) Thymine                   (3) Guanine                   (4) Cytosine
- v) The deoxy ribose sugar lacks one oxygen at  
(1) 3'                           (2) 5'                           (3) 2'                           (4) 4'
- vi) The name of Thymine is  
(1) 2,4,di –oxy 5 methyl pyrimidine   (2) 2,4,di –oxy pyrimidine           (3) 2-oxy 4-amino pyrimidine           (4) All of these
- vii) Which of the following is found in between Nitrogenous base and the pentose sugar?  
(1) Ester bond                   (2) Glycosidic bond           (3) Phosphodiester bond           (4) None of these
- viii) Adenosine is  
(1) Nitrogenous base   (2) Nucleosides           (3) Nucleotides           (4) Nucleic Acids
- ix) Adenosine + Phosphoric Acid  
(1) Adenine                   (2) Adenylic Acid           (3) Adenidine                   (4) Adenosic Acid
- x) According to Chargaff's rule,  
(1) A+G=T+C                   (2) A/G=T/C                   (3) A X G= T X C                   (4) A-T= G-C
- xi) One complete turn of the helix has  
(1) 34 A                           (2) 3.4 A                           (3) 0.34 A                           (4) 0.034 A
- xii) The number of bases present in one turn of nucleic acids-  
(1) 12                           (2) 10                           (3) 8                           (4) 14
- xiii) Which of the following is directed outwards?  
(1) Major groove           (2) Minor groove           (3) Both (1) and (2)           (4) None of these
- xiv) The number of Hydrogen bonds present between A and T is  
(1) 1                           (2) 2                           (3) 3                           (4) 4
- xv) The DNA helix diameter is about  
(1) 10 A                           (2) 20A                           (3) 30A                           (4) 40A

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